	FILE	'REGISTRY' ENTERED AT 12:25:26 ON 02 OCT 2008
L1		STRUCTURE UPLOADED
L2		0 S L1
L3		0 S L1 SSS FULL
L4		STRUCTURE UPLOADED
L5		0 S L4
L6		0 S L4 SSS FULL
L7		STRUCTURE UPLOADED
L8		0 S L7
L9		0 S L7 SSS FULL
L10		STRUCTURE UPLOADED
L11		0 S L10
L12		0 S L10 SSS FULL
L13		STRUCTURE UPLOADED
L14		44 S L13
L15		STRUCTURE UPLOADED
L16		15 S L15
L17		360 S L15 SSS FULL
	FILE	'HCAPLUS' ENTERED AT 12:46:20 ON 02 OCT 2008
L18		4 S L17

=> file registry
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FILE 'REGISTRY' ENTERED AT 12:25:26 ON 02 OCT 2008
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 OCT 2008 HIGHEST RN 1056151-32-6
DICTIONARY FILE UPDATES: 1 OCT 2008 HIGHEST RN 1056151-32-6

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting ${\tt SmartSELECT}$ searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>

Uploading C:\Program Files\STNEXP\Queries\10525197generic.str

```
chain nodes :
7 19 20 21 22 23 24 25 26 27 28 29 31 33 34 35 38
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
2-7 \quad 5-33 \quad 7-8 \quad 11-31 \quad 13-23 \quad 13-28 \quad 14-22 \quad 14-27 \quad 15-19 \quad 15-26 \quad 17-20 \quad 17-25 \quad 18-24
18-29 19-21 33-34 34-35 34-38
ring bonds :
1 - 2 \quad 1 - 6 \quad 2 - 3 \quad 3 - 4 \quad 4 - 5 \quad 5 - 6 \quad 8 - 9 \quad 8 - 12 \quad 9 - 10 \quad 10 - 11 \quad 11 - 12 \quad 13 - 14 \quad 13 - 18 \quad 14 - 15
15-16 16-17 17-18
exact/norm bonds :
5-33 9-10 10-11 11-12 11-31 13-14 13-18 13-23 13-28 14-15 14-22 14-27 15-16 15-26 16-17 17-18 17-20 18-24 18-29 33-34 34-35 34-38
exact bonds :
2-7 7-8 15-19 17-25 19-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12
```

G2:OH, H

Connectivity:

34:3 X maximum RC ring/chain

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS

20:CLASS 21:CLASS

22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS

30:Atom 31:CLASS

Generic attributes :

34:

Number of Carbon Atoms : less than 7

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 12:25:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 12:26:07 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

=> log hold

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 178.36 178.57

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:26:13 ON 02 OCT 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAEX01623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * * SESSION RESUMED IN FILE 'REGISTRY' AT 12:27:35 ON 02 OCT 2008 FILE 'REGISTRY' ENTERED AT 12:27:35 ON 02 OCT 2008 COPYRIGHT (C) 2008 American Chemical Society (ACS)

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 178.36 178.57

=>

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chain nodes :
7 19 20 21 22 23 24 25 26 27 28 29 31 33 34 35 38
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
2-7 5-33 7-8 11-31 13-23 13-28 14-22 14-27 15-19 15-26 17-20 17-25 18-24
18-29 19-21 33-34 34-35 34-38

ring bonds : $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 8-9 \quad 8-12 \quad 9-10 \quad 10-11 \quad 11-12 \quad 13-14 \quad 13-18 \quad 14-15$ 15-16 16-17 17-18 exact/norm bonds : 5-33 9-10 10-11 11-12 11-31 13-14 13-18 13-23 14-15 14-22 15-16 16-1717-18 17-20 18-24 33-34 34-35 34-38 exact bonds : 2-7 7-8 13-28 14-27 15-19 15-26 17-25 18-29 19-21 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12 G1:0,S G2:OH, H Connectivity: 34:3 X maximum RC ring/chain Match level : 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS 30:Atom 31:CLASS 33:CLASS 34:CLASS 35:CLASS 38:CLASS Generic attributes : 34: Number of Carbon Atoms: less than 7 L4STRUCTURE UPLOADED => s 14SAMPLE SEARCH INITIATED 12:28:03 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE 100.0% PROCESSED 0 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 0 TO PROJECTED ANSWERS: 0 TO

0 SEA SSS SAM L4 L5

=> d 14

L4 HAS NO ANSWERS T.4 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

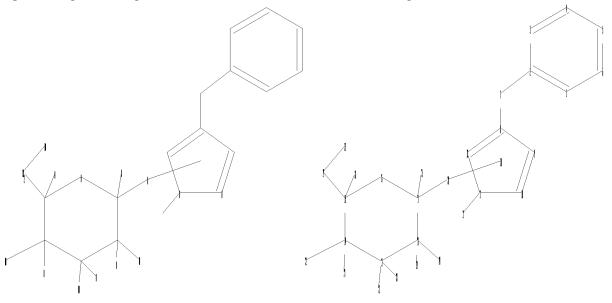
=> s 14 sss full FULL SEARCH INITIATED 12:28:27 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 5 TO ITERATE 100.0% PROCESSED 5 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

0 SEA SSS FUL L4 L6

=>

Uploading C:\Program Files\STNEXP\Queries\10525197generic3.str



chain nodes :

7 19 20 21 22 23 24 25 26 27 28 29 31

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

 $2-7 \quad 7-8 \quad 11-31 \quad 13-23 \quad 13-28 \quad 14-22 \quad 14-27 \quad 15-19 \quad 15-26 \quad 17-20 \quad 17-25 \quad 18-24$

18-29

19-21

ring bonds :

 $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 8-9 \quad 8-12 \quad 9-10 \quad 10-11 \quad 11-12 \quad 13-14 \quad 13-18 \quad 14-15$

15-16 16-17 17-18

exact/norm bonds :

 $9-10 \quad 10-11 \quad 11-12 \quad 11-31 \quad 13-14 \quad 13-18 \quad 13-23 \quad 14-15 \quad 14-22 \quad 15-16 \quad 16-17 \quad 17-18$

17-20 18-24

exact bonds :

2-7 7-8 13-28 14-27 15-19 15-26 17-25 18-29 19-21

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12

G1:0,S

G2:OH, H

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS

20:CLASS 21:CLASS 22:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS 29:CLASS

30:Atom 31:CLASS

L7 STRUCTURE UPLOADED

=> s 17

SAMPLE SEARCH INITIATED 12:29:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0 PROJECTED ANSWERS: 0 TO 0

L8 0 SEA SSS SAM L7

 \Rightarrow s 17 sss full

FULL SEARCH INITIATED 12:29:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

L9 0 SEA SSS FUL L7

=> log hold

COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST ENTRY SESSION 535.75

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:29:15 ON 02 OCT 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAEXO1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 12:31:36 ON 02 OCT 2008 FILE 'REGISTRY' ENTERED AT 12:31:36 ON 02 OCT 2008

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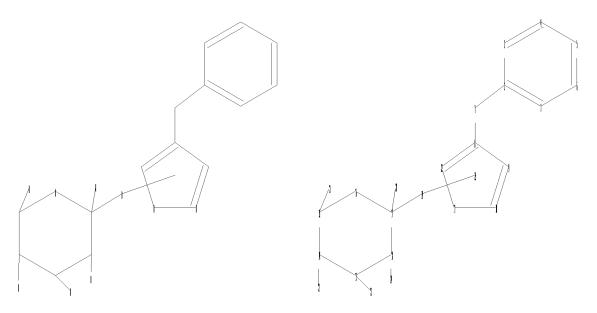
COST IN U.S. DOLLARS SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST 535.54 535.75

=>

Uploading C:\Program Files\STNEXP\Queries\10525197generic4.str



chain nodes :
7 19 20 21 22 23 24
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
2-7 7-8 13-23 14-22 15-21 17-19 17-20 18-24
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12 9-10 10-11 11-12 13-14 13-18 14-15
15-16 16-17 17-18
exact/norm bonds :
9-10 10-11 11-12 13-14 13-18 14-15 15-16 16-17 17-18 17-19
exact bonds :
2-7 7-8 13-23 14-22 15-21 17-20 18-24
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-12

G1:0,S

G2:OH,H

Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 24:CLASS 25:Atom

L10 STRUCTURE UPLOADED

=> s 110

SAMPLE SEARCH INITIATED 12:32:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 4 TO 200 PROJECTED ANSWERS: 0 0 TO

0 SEA SSS SAM L10 T.11

=> s 110 sss full

FULL SEARCH INITIATED 12:32:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 30 TO ITERATE

100.0% PROCESSED 30 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

0 SEA SSS FUL L10 L12

=> log hold

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 713.90 714.11

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:32:10 ON 02 OCT 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTAEXO1623

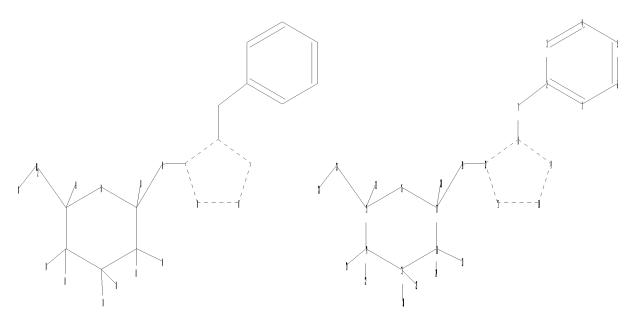
PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * * SESSION RESUMED IN FILE 'REGISTRY' AT 12:43:17 ON 02 OCT 2008 FILE 'REGISTRY' ENTERED AT 12:43:17 ON 02 OCT 2008 COPYRIGHT (C) 2008 American Chemical Society (ACS)

SINCE FILE TOTAL ENTRY SESSION COST IN U.S. DOLLARS

713.90 714.11 FULL ESTIMATED COST

Uploading C:\Program Files\STNEXP\Queries\10525197generic5.str



chain nodes : 7 19 20 21 22 23 24 27 28 29 30 31 ring nodes : 1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 chain bonds : $2-7 \quad 7-8 \quad 12-19 \quad 13-23 \quad 13-30 \quad 14-22 \quad 14-29 \quad 15-21 \quad 15-27 \quad 17-19 \quad 17-20 \quad 18-24$ 18-31 27-28 ring bonds : $1 - 2 \quad 1 - 6 \quad 2 - 3 \quad 3 - 4 \quad 4 - 5 \quad 5 - 6 \quad 8 - 9 \quad 8 - 12 \quad 9 - 10 \quad 10 - 11 \quad 11 - 12 \quad 13 - 14 \quad 13 - 18 \quad 14 - 15$ 15-16 16-17 17-18 exact/norm bonds : $8-9 \quad 8-12 \quad 9-10 \quad 10-11 \quad 11-12 \quad 12-19 \quad 13-14 \quad 13-18 \quad 13-30 \quad 14-15 \quad 14-29 \quad 15-16$ 16-17 17-18 17-19 18-31 exact bonds : 2-7 7-8 13-23 14-22 15-21 15-27 17-20 18-24 27-28 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6

G1:0,S

G2:OH, H

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 24:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS

L13 STRUCTURE UPLOADED

=> s 113

SAMPLE SEARCH INITIATED 12:43:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS 44 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 736 TO 1664

PROJECTED ANSWERS: 483 TO 1277

L14 44 SEA SSS SAM L13

=> =>

Uploading C:\Program Files\STNEXP\Queries\10525197generic6.str

chain nodes :
7 19 20 21 22 23 24 27 28 29 30 31 32 33 34

ring nodes :

1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18

chain bonds :

ring bonds : $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 8-9 \quad 8-12 \quad 9-10 \quad 10-11 \quad 11-12 \quad 13-14 \quad 13-18 \quad 14-15$ 15-16 16-17 17-18 exact/norm bonds : 5-32 8-9 8-12 9-10 10-11 11-12 12-19 13-14 13-18 13-30 14-15 14-29 15-1616-17 17-18 17-19 18-31 32-33 33-34 exact bonds : 2-7 7-8 13-23 14-22 15-21 15-27 17-20 18-24 27-28 normalized bonds : 1-2 1-6 2-3 3-4 4-5 5-6 G1:0,S,C

G2:OH, H

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 27:CLASS 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS

L15 STRUCTURE UPLOADED

=> s 115

SAMPLE SEARCH INITIATED 12:45:25 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 28 TO ITERATE

100.0% PROCESSED 28 ITERATIONS 15 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 243 TO 877 PROJECTED ANSWERS: 68 TO 532

L16 15 SEA SSS SAM L15

=> d 116 scan

L16 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN 1-Piperazinecarboxylic acid, 4-[2,2-dimethyl-3-[[2-[3-methyl-4-[[3-(1-methyl-3-[1-methylmethylethyl)-5-[(2,3,4,6-tetra-O-acetyl- β -D-glucopyranosyl)oxy]-1Hpyrazol-4-yl]methyl]phenoxy]ethyl]amino]-1,3-dioxopropyl]-, phenylmethyl ester

C47 H61 N5 O15 MF

PAGE 1-A

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L16 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 1-Piperazinecarboxylic acid, $4-[2,2-dimethyl-3-[[2-[3-methyl-4-[[3-(1-methylethyl)-5-[(2,3,4,6-tetra-0-acetyl-$\beta-D-galactopyranosyl)oxy]-1H-pyrazol-4-yl]methyl]phenoxy]ethyl]amino]-1,3-dioxopropyl]-, phenylmethylester$

MF C47 H61 N5 O15

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L16 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN IN Urea, N-[2-(dimethylamino)ethyl]-N'-[2-[4-[[3-(β -D-glucopyranosyloxy)-5-(1-methylethyl)-1H-pyrazol-4-yl]methyl]-3-methylphenoxy]ethyl]- (9CI) MF C27 H43 N5 O8

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L16 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN IN β -D-Glucopyranoside, 5-(1-methylethyl)-4-[[4-[3-[(3-pyridinylmethyl)amino]propoxy]phenyl]methyl]-1H-pyrazol-3-yl MF C28 H38 N4 O7

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L16 15 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN IN β -D-Glucopyranoside, 4-[[4-(2-aminoethoxy)phenyl]methyl]-5-(1-methylethyl)-1H-pyrazol-3-yl, 2,3,4,6-tetraacetate MF C29 H39 N3 O11

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 115 sss full FULL SEARCH INITIATED 12:46:17 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -667 TO ITERATE

100.0% PROCESSED 667 ITERATIONS 360 ANSWERS

SEARCH TIME: 00.00.01

T.17360 SEA SSS FUL L15

=> file hcaplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 894.10 894.31

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FILE COVERS 1907 - 2 Oct 2008 VOL 149 ISS 14 FILE LAST UPDATED: 1 Oct 2008 (20081001/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 117 L18 4 L17

=> d 118 1-4 ti abs bib

- L18 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Preventive or remedy for diseases caused by hyperglycemia
- AB It is intended to provide a medicinal composition containing as the active ingredient a selective SGLT1 inhibitor (for example, an SGLT1 inhibitor substantially showing no GLUT2 and/or GLUT5 inhibitory effect) which exerts a sugar absorption inhibitory effect over a wide range, also has a hypoglycemic effect caused by fructose intake in usual diet and thus can show an outstanding hypoglycemic effect and which is appropriate as a preventive or a remedy for diseases caused by hyperglycemia (for example, diabetes, impaired glucose tolerance, diabetic complications or obesity).
- AN 2004:486406 HCAPLUS <<LOGINID::20081002>>
- DN 141:47334
- TI Preventive or remedy for diseases caused by hyperglycemia
- IN Ito, Fumiaki; Shibazaki, Toshihide; Tomae, Masaki; Fushimi, Nobuhiko; Isaji, Masayuki
- PA Kissei Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 34 pp. CODEN: PIXXD2
- DT Patent
- LA Japanese
- FAN.CNT 1

	PA:	ATENT NO.				KIND DATE				APPL	ICAT	ION 1		DATE						
ΡI	WO	2004050122			A1 200			2004	0617	,	WO 2	:003-JP15503				20031204				
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			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,		
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KR,	KΖ,	LC,	LK,		
			LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NΙ,	NO,	NΖ,		
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		2003								AU 2003-289156										
	EP	1568				A1			0831											
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		1744				A			0308											
		2006							0216											
		2005								IN 2005-DN2385						20050603				
PRAI									1204											
	WO 2003-JP15503					M		2003	1204											

- RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L18 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
- TI Preparation of pyrazolyl glycoside derivatives as inhibitors of 1,5-anhydroglucitol/fructose/mannose transporters

AB The title compds. [I; R = each (un)substituted C3-8 cycloalkyl, C6-10 aryl, C2-9 heterocycloalkyl, or C1-9 heteroaryl; R1 = H, each (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-8 cycloalkyl, C6-10 aryl, C2-9 heterocycloalkyl, or C1-9 heteroaryl; one of Q0 and T0 = α - or β -D-glucopyranosyloxy or -mannopyranosyloxy or β -D-deoxyglucopyranosyloxy- and the other = (CH2)nAr; wherein Ar = each (un)substituted C6-10 aryl or C1-9 heteroaryl; n = an integer of 0-2] or pharmacol. acceptable salts or prodrugs thereof are prepared Also disclosed are medicinal composition containing the compound I, medicinal use thereof,

and intermediates in producing the same. These compds. exerts an excellent effect of inhibiting human 1,5-anhydroglucitol/fructose/mannose transporters and inhibit reabsorption or cellular uptake of glucose, fructose, and mannose in kidney or absorption of these saccharide small intestine and inhibit the increase in blood sugar. Therefore, they are useful as preventives, progress inhibitors or remedies for a disease caused by the over intake of at least one saccharide selected from among glucose, fructose, and mannose or a disease caused by hyperglycemia (diabetic complication, diabetes, or diabetic nephropathy). Thus, glycosidation of 1-isopropyl-5-(4-methoxyphenyl)-4-[(4-methoxyphenyl)methyl]-1,2-dihydro-3H-pyrazol-3-one by acetobromo- α -D-glucose in the presence of benzyltributylammonium bromide in a mixture of CH2C12 and 5 N aqueous NaOH at room temperature for 1.5 h followed by treatment of

the product with NaOMe in MeOH gave 3-(β -D-glucopyranosyloxy)-1-isopropyl-5-(4-methoxyphenyl)-4-[(4-methoxyphenyl)methyl]-1H-pyrazole (II). II in vitro inhibited the uptake of [14C]methyl α -D-glucopyranoside in COS-7 cells transfected with human SMINT/PME18S-FL expression plasmid with IC50 of 92 nM.

- AN 2004:311011 HCAPLUS <<LOGINID::20081002>>
- DN 140:321649
- TI Preparation of pyrazolyl glycoside derivatives as inhibitors of 1,5-anhydroglucitol/fructose/mannose transporters
- IN Fujikura, Hideki; Kikuchi, Norihiko; Tazawa, Shigeki; Yamato, Tokuhisa; Isaji, Masayuki
- PA Kissei Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 159 pp. CODEN: PIXXD2
- DT Patent

ran.		rent :		KIN	D -	DATE		APPLICATION NO.						DATE				
ΡI	WO	2004031203			A1 20040415			WO 2003-JP12477						20030930				
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	GE,
			GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	KΖ,	LC,	LK,	LR,
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MΖ,	NI,	NO,	NΖ,	OM,
			PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	TM,	TN,
			TR,	TT,	ΤZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
		RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,
			KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
			FI,	FR,	GB,	GR,	HU,	IE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
			BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	G₩,	$\mathrm{ML}_{m{\prime}}$	MR,	NE,	SN,	TD,	ΤG
	CA	2500		A1		2004	0415	CA 2003-2500873										
	ΑU					A1 20040423 A1 20050706			AU 2003-272903						20030930			
	EΡ								0706		EP 2	003-	7539		20030930			
		R:						•			GR,				•			PT,
			ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
		2006									US 2	005-	5298	95		2	0050	919
PRAI		2002						2002										
		2002						2002										
	-	2002				2002												
		2003				W		2003	0930									
OS		RPAT	• •															
RE.CNT		42	TH	ERE	ARE	42 C	ITED	REF	EREN	ICES AVAILABLE FOR THIS RECORD								

L18 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation of 4-benzylpyrazolyl glucopyranosides and galactopyranoside derivatives as sodium-glucose cotransporter (SGLT1) inhibitors, medicinal composition containing the same, medicinal use thereof, and intermediate for production thereof

ALL CITATIONS AVAILABLE IN THE RE FORMAT

GΙ

$$Q^{1}$$
 R^{5}
 $X-Y-N$
 Z
 Q^{2}
 R^{3}
 Q^{2}
 R^{2}
 R^{3}
 Q^{2}
 R^{2}
 R^{3}
 Q^{2}
 R^{3}
 Q^{3}
 R^{4}
 R^{5}
 R^{5}

AB Pyrazole derivs. represented by the general formula (I) [R1 = H, C1-6] alkyl, C2-6 alkenyl, hydroxy-C2-6 alkyl, C3-7 cycloalkyl-C1-6 alkyl, each (un)substituted aryl or aryl-C1-6 alkyl; one of Q and T = Q1 or Q2 and the other = C1-6 alkyl, halo-C1-5 alkyl, C1-6

alkoxy-C1-6 alkyl, C3-7 cycloalkyl; R2 = H, halo, OH, C1-6 alkyl, C1-6 alkoxy,C1-6 alkylthio, halo-C1-6 alkyl, halo-C1-6 alkoxy, C1-6 alkoxy-C1-6 alkoxy, C3-7 cycloalkyl-C2-6 alkoxy, etc.; X = a single bond, O, S; Y = optionally hydroxy-substituted C1-6 alkylene or C2-6 alkenylene; Z = RB, CORC, SO2RC, CO(RD)RE, SO2NHRF, C(:NRG)N(RH)RI; wherein RC = each (un) substituted aryl, heteroaryl, or C1-6 alkyl; R4, RB, RD, RE, RF = H, each (un) substituted aryl, heteroaryl, or C1-6 alkyl; NR4RB or NRDRE together forms (un) substituted C2-6 cyclic amino; RG, RH, RI = H, (un) substituted C1-6 alkyl, etc.; R3, R5, R6 = H, halo, C1-6 alkyl, C1-6 alkoxy] or pharmacol. acceptable salts thereof are prepared These compds. have excellent human SGLT1 inhibitory activity and are useful as preventives or therapeutic agents for diseases attributable to hyperglycemia such as diabetes, impaired glucose tolerance, fasting blood sugar abnormality, complications of diabetes, obesity, hyperinsulinemia, hyperlipidemia, hypercholesteremia, hypertriglyceridemia, lipid metabolism disorder, atherosclerosis, hypertension, ischemic heart failure, edema, hyperuricemia, and gout and for diseases attributable to an increased blood galactose level such as galactosemia. For example, $3-(\beta-D-glucopyranosyloxy)-4-[[4-[3-[3-(2-hydroxy-1,1$ dimethylethyl)ureido]propoxy]-2-methylphenyl]methyl]-5-isopropyl-1Hpyrazole in vitro inhibited the uptake of [14C]methyl α -Dglucopyranoside in CHO-K1 cells expressing human SGLT1 with IC50 of 19 nM. For another example, $3-(\beta-D-glucopyranosyloxy)-4-[[4-(2$ guanidinoethoxy)-2-methylphenyl]methyl]-5-isopropyl-1H-pyrazole at 1 mg/kg p.o. lowered the serum glucose concentration from 303±63 (control) to 165±17 mg/dL after 1 h in rats with streptozotocin-induced diabetes.

AN 2004:182896 HCAPLUS <<LOGINID::20081002>>

DN 140:236000

- TI Preparation of 4-benzylpyrazolyl glucopyranosides and galactopyranoside derivatives as sodium-glucose cotransporter (SGLT1) inhibitors, medicinal composition containing the same, medicinal use thereof, and intermediate for production thereof
- IN Fushimi, Nobuhiko; Shimizu, Kazuo; Yonekubo, Shigeru; Teranishi, Hirotaka; Tomae, Masaki; Isaji, Masayuki
- PA Kissei Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 270 pp. CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PAT	TENT 1	NO.			KIN	D	DATE		APPLICATION NO.							DATE		
ΡI	WO	2004018491			A1 20040304							20030821							
		W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KR,	KΖ,	LC,	LK,	LR,	LS,	
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NΖ,	OM,	PG,	
			PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	TM,	TN,	TR,	
			TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	AΖ,	BY,	
			KG,	KΖ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
								ΙE,										•	
			BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	$ ext{ML}$,	MR,	ΝE,	SN,	TD,	ΤG	
	JР	2004	1372	45		A 20040513				JP 2002-324076						20021107			
	CA	2496.	329			A1		2004	0304		CA 2	003-		20	0030	321			
	ΑU	2003	2622	63		A1		2004	0311		AU 2	003-	2622	63		20	0030	321	
	EΡ	1548	024			A1		2005	0629		EP 2	003-	7927	60		20	0030	321	
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,	
			ΙE,	SI,	LT,	LV,	FΙ,	RO,	MK,	CY,	AL,	TR,	ВG,	CZ,	EE,	HU,	SK		
	BR	2003	0136	94		A 20050705					BR 2	003-	1369	4		20030821			
	CN	CN 1688597				А		2005	1026	CN 2003-824499						20030821			

	ZA 2005001549	А	20060726	ZA 2005-1549	20030821
	NZ 538423	A	20070223	NZ 2003-538423	20030821
	US 20050272669	A1	20051208	US 2005-525197	20050222
	MX 2005PA02129	А	20050603	MX 2005-PA2129	20050223
	NO 2005001411	A	20050426	NO 2005-1411	20050317
	IN 2007DN07100	A	20071012	IN 2007-DN7100	20070913
PRAI	JP 2002-244381	A	20020823		
	JP 2002-324076	A	20021107		
	WO 2003-JP10551	W	20030821		
	IN 2005-DN666	A3	20050221		
OS	MARPAT 140:236000				

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation of pyrazolyl glucopyranoside and galactopyranoside derivatives inhibitors of human sodium-glucose cotransporter 1 (SGLT1), medicinal composition containing the same, medicinal use thereof, and intermediate for production thereof

GΙ

$$Q^{1} = \begin{pmatrix} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & & \\ & & &$$

AΒ Pyrazoles derivs. represented by the general formula (I) [R1 = H, C1-5]alkyl, C2-5 alkenyl, hydroxy-C2-5 alkyl, C3-7 cycloalkyl, C3-7 cycloalkyl-C1-6 alkyl (un) substituted aryl or aryl-C1-6 alkyl; one of Q and T = Q1, Q2 and the other = C1-5 alkyl, halo-C1-6 alkyl, C1-6alkoxy-C1-6 alkyl, C3-7 cycloalkyl; R2 = H, halo, OH, C1-6 alkyl, C1-6 alkoxy, C1-6 alkylthio, halo-C1-6 alkyl, halo-C1-6 alkoxy, C1-6 alkoxy-C1-6 alkoxy, C3-7 cycloalkyl-C2-6 alkoxy, etc.; X = a single bond, O, S; Y = a single bond, C1-6 alkylene, C2-6 alkenylene; Z = CO, SO2; R4, R5 = H, (un)substituted C1-6 alkyl; or NR4R5 together forms an (un) substituted C2-6 cyclic amino; R3, R6, R7 = H, halo, C1-6 alkyl, C1-6 alkoxy] or pharmacol. acceptable salts thereof or prodrug of either are prepared These compds. have excellent human SGLT1 inhibitory activity and are useful as preventives or therapeutic agents for (1) diseases attributable to hyperglycemia such as diabetes, impaired glucose tolerance, complications of diabetes, obesity, hyperinsulinemia, hyperlipidemia, hypercholesteremia, hypertriglycemia, lipid metabolism

disorder, atherosclerosis, hypertension, ischemic heart failure, edema, hyperuricemia, or gout and (2) diseases attributable to high level of galactose, galactosemia. For example, $3-(\beta-D-glucopyranosyloxy)-4-[4-[3-[2-hydroxy-1,1-bis(hydroxymethyl)ethylcarbamoyl]propyl]phenyl]methy l]-5-isopropyl-1H-pyrazole at 1 mg/kg p.o. lowered blood glucose in diabetic rats from 297±35 to 178±19 mg/dL in 1 h.$

AN 2004:143172 HCAPLUS <<LOGINID::20081002>>

DN 140:199632

- TI Preparation of pyrazolyl glucopyranoside and galactopyranoside derivatives inhibitors of human sodium-glucose cotransporter 1 (SGLT1), medicinal composition containing the same, medicinal use thereof, and intermediate for production thereof
- IN Teranishi, Hirotaka; Fushimi, Nobuhiko; Yonekubo, Shigeru; Shimizu, Kazuo; Shibazaki, Toshihide; Isaji, Masayuki
- PA Kissei Pharmaceutical Co., Ltd., Japan
- SO PCT Int. Appl., 215 pp. CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

1 7314 •	PATENT NO.						D	DATE		APPLICATION NO.						DATE				
ΡI	WO	2004014932			A1 20040219				 WO 2					2	0030	 807				
		W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,		
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,		
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KR,	KΖ,	LC,	LK,	LR,	LS,		
			LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NΙ,	NO,	NΖ,	OM,	PG,		
			PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,	TR,		
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		2494														20030807				
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	EР	1544208														20030807 SE, MC, PT,				
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		5381												20030807						
		2006								NZ 2003-538117 US 2005-523820										
		7375				B2		2008			05 2	005-	JZJ0	20		۷.	0050.	204		
		2005						2005			MV 2	005-	D 7.1 5.	/ Q		2	0050	208		
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		1082				A1		2003				006-					0060.			
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11/11		2002				A														
		2003						2003												
OS		RPAT				,			•											

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT